

0322



OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002  
TIME: 15:28:43

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Output Set: N:\CRF3\05032002\J004860.raw

3 <110> APPLICANT: Young et al.  
6 <120> TITLE OF INVENTION: 207 Human Secreted Proteins  
9 <130> FILE REFERENCE: PZ007P1  
12 <140> CURRENT APPLICATION NUMBER: 10/004,860  
13 <141> CURRENT FILING DATE: 2001-12-07  
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16 <151> PRIOR FILING DATE: 1998-12-04  
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19 <151> PRIOR FILING DATE: 1998-06-04  
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169 <211> LENGTH: 733  
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 176 tctcccgac tcctgaggta acatgcgtgg tggtggacgt aagccacgaa gaccctgagg 180  
 178 tcaagtcaa ctggtagcgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240  
 179 aggagcgtca caacacgacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300  
 180 ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca accccatcg 360  
 181 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgccc 420  
 182 catcccgga tgagctgacc aagaaccagg tcagcgtcct ctgcctggc aaaggcttct 480  
 183 atccaagcga catcgccgtg gagttggaga gcaatggca gccggagaac aactacaaga 540  
 184 ccacgcctcc cgtgtggac tccgacggct ccttccttct ctacagcaag ctcaccgtgg 600  
 185 acaagagcag gtggcagcag gggAACGCT tctcatgctc cgtgatgcat gaggctctgc 660  
 186 acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720  
 187 gactctagag gat 733  
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 193 <213> ORGANISM: Homo sapiens  
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 196 <221> NAME/KEY: Site  
 197 <222> LOCATION: (3)  
 198 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids  
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 202 1 5  
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 207 <213> ORGANISM: Homo sapiens  
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 211 cccgaaatat ctgccttc aattag 86  
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 231 gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180  
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280 caattagtca gcaaccatag tcccgccct aactccgccc atcccgcgg taactccgccc	120	
281 cagttccgcc catttccgc cccatggctg actaattttt ttatattatg cagaggccga	180	
282 ggccgcctcg gcctctgagc tattccagaa gtatgtgagga ggctttttg gagggcttagg	240	
283 ctttgcaaa aagctt	256	
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293 ctaagtccag tcacacattt cccaaagttt ctctttgtca taaccctgggt ctggctgggt	120	
294 ttgrggcrctt gagaatgggt cagggactcc agggcaagtc caacagagac cccaaaccca	180	
295 ccacacacca gcagccacaa cctcaccacc aacaaagagg acttttgtgg ggcacacaagt	240	
296 aagaggtcat ttcttggatg gactcagacc tttaaacagg agatgtgagc acttccagks	300	
297 agtttttaag caaggcatgg ggaacaggaa atagaacctt tcaaagaggt tgcccgagaga	360	
298 aaagctgggc ctcttgcatt cggcttcctt ggagcagcct cttctggcag aaagccatca	420	
299 ggtgctcaat catcttctcc tggccaaggc tctgaccatg cttagtactg gaatagaggt	480	
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303	tctagaatct	ttgagtgcctt	ggcttccaa	ggatactgcg	gagactctgg	ccaagctgat	720
304	gamttctga	artgtcactg	gcaccatatg	caacaagaac	caccattcac	tgatgtacta	780
305	atgggttgg	ggcctgggac	attccatctg	aggtccttc	tgaacatgtc	actccacagc	840
306	agaggaccgg	ttgcagctt	cccagaacca	ctcctccagg	agagctggat	gtttgcgtg	900
307	caacacctt	agcactgact	gctattgttc	aaaaaaagcc	tttgctgcat	tcggaggact	960
308	ccccctgtgcc	ctgaggtgac	ttcctaacta	tgtggttca	ttagcgaatt	tatTTTTGT	1020
309	gctgggtgga	catttgtt	ttgttaggtt	gctgttaag	ctcaagttt	ctgtgctctc	1080
310	tgcagctaca	aaacatctt	gcataattaa	gaktggctt	tataaatagc	tttattctga	1140
311	tattaatcg	attccaaact	ttactgagaa	ttaaggactg	gggtacttta	aagaaatgca	1200
312	aatagcaatt	gaagaaccac	tgctgcaggt	ggtagccctg	gctagactga	attacactag	1260
313	aaatcagcca	gaaggaagcg	tccttgggat	cccagatcac	tctttttttt	ttttttttta	1320
314	aaaggggcag	ccccttgcgt	gctcatctct	ctgaataaca	gttacgtctt	cataatcgata	1380
315	ccagatgcct	tcttcatcat	gccactgaag	ccactcacc	ccttcaagaa	catgccaacc	1440
316	tctgtcagat	tcacttaccc	acaaaacaagg	aggcacgtt	ggcacaaagt	gttgcctcc	1500
317	aggtccaagt	ggactctaca	gagtgcgtt	cctcaacaca	ctggatttca	gttggactgg	1560
318	accaagagca	ggcaaagaca	cgggaactga	aaaactccac	agggtttgga	gaatagaaat	1620
319	aaaaagccac	gtcatataac	tcaagaataa	atgggtttt	ggaaatttta	aaatttatcat	1680
320	cgaaggttgt	aaaacttattt	caggccaaa	tgaaaggaaa	tcgccagtt	gggatgaaat	1740
321	cacagagcct	gtgtttatg	atatggttgg	atgtccactg	atgaaatttt	aaaggagttt	1800
322	cattttaaa	agtgcgcatg	attctacata	tgagaattt	ttaggccaag	aaactgtcct	1860
323	tggctcagag	gtgttggaa	ttaaagcaga	gagaagccat	tcgtgatgt	tagaaccaag	1920
324	gatggtcatg	tacacaaaga	ccatcgagac	ggcattctt	gtttacaaaa	cacttaccaa	1980
325	gaaagcactt	tgttagggaa	ctttagtaag	ttcttctcat	ttcattatgt	ttcttccaag	2040
326	gaaacaggag	agactgaatt	aataatttc	tcttcctct	taagcactt	taaaataata	2100
327	aagtacatct	tgaaatttgg	gggggcattt	ctgattttaa	aaaagaaaaa	ggctgcttga	2160
328	tgtatgttat	gcagagacac	tctgcctct	gtggctgcag	agcaataaccc	aagccttatt	2220
329	tggaaggctc	aacatttgg	attgcacttt	aattgattaa	tcctcaattc	atgtggcctt	2280
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331	acatcaaata	ccagcccccc	acctgcacaa	tgggggtgga	aaactttgt	atccctaagc	2400
332	atattatttt	atagtgtctg	ccatgccatg	tggaaatact	ttatTTTAA	cctcaggatt	2460
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349	actgaagatg	agagaacatg	atatgtgtaa	agtgccttc	acaataccca	gaacatagca	120
350	aacatgtaat	gaatgttagt	atagaattt	tttttatttc	ttttgattca	gttgggacta	180
351	tgttcagctg	taacagaata	cccaaataaa	ctgtttttaa	caaattaaag	tttwgttgc	240
352	aagttttgtt	acgaatttcag	acaatccagg	gctttatag	atgcaccagg	atcagcaggt	300
353	acaaaggcat	ctttcctgtat	ttctgcctgt	ctcaatgt	gggttgcata	ccagartcca	360

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:17; N Pos. 507  
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Seq#:19; N Pos. 930  
Seq#:21; N Pos. 1470  
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Seq#:24; N Pos. 834  
Seq#:26; N Pos. 1022  
Seq#:27; N Pos. 1892,1930,1934  
Seq#:28; N Pos. 17  
Seq#:29; N Pos. 110,3690,3716  
Seq#:30; N Pos. 1628  
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Seq#:32; N Pos. 24,666,682,3181,3184  
Seq#:33; N Pos. 957,964  
Seq#:34; N Pos. 1767,1768  
Seq#:35; N Pos. 6,8,870,877  
Seq#:37; N Pos. 787  
Seq#:39; N Pos. 794,806,810  
Seq#:40; N Pos. 69  
Seq#:42; N Pos. 196,226,302,596,952  
Seq#:43; N Pos. 1801  
Seq#:45; N Pos. 976  
Seq#:48; N Pos. 593,2049  
Seq#:49; N Pos. 35,570  
Seq#:50; N Pos. 1486  
Seq#:53; N Pos. 17,1514,1551,1556  
Seq#:55; N Pos. 751,879,888,897,899,901  
Seq#:56; N Pos. 328,336,341,788  
Seq#:57; N Pos. 250,1051,1052  
Seq#:58; N Pos. 3,6,32,751,770,784  
Seq#:59; N Pos. 345,1024,1098,1186  
Seq#:60; N Pos. 410,476  
Seq#:61; N Pos. 24,39,548,560,562,584  
Seq#:62; N Pos. 158,159,202  
Seq#:63; N Pos. 2,4,12,738,776  
Seq#:64; N Pos. 565,566  
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Seq#:87; N Pos. 805  
Seq#:90; N Pos. 12,123,1522,1527  
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Seq#:111; N Pos. 1579,2226  
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Seq#:119; N Pos. 147,376,395,1101  
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Seq#:211; N Pos. 200  
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Seq#:215; N Pos. 7,9,1241,1247  
Seq#:216; N Pos. 1281,1704  
Seq#:222; N Pos. 241,954,961  
Seq#:223; N Pos. 1351  
Seq#:224; N Pos. 1,705,706,707  
Seq#:226; N Pos. 773  
Seq#:227; N Pos. 344  
Seq#:228; N Pos. 462,469  
Seq#:229; N Pos. 303,392  
Seq#:230; N Pos. 1,1921,1927  
Seq#:231; N Pos. 1032,1034  
Seq#:232; N Pos. 438,741  
Seq#:234; N Pos. 775,2080,2083  
Seq#:235; N Pos. 2058,2080,2115,2132  
Seq#:236; N Pos. 528,552,1133  
Seq#:240; N Pos. 651,1064  
Seq#:241; N Pos. 830  
Seq#:242; N Pos. 2,4,16,1810,1811  
Seq#:243; N Pos. 553,2267,2269,2271

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 05/03/2002  
PATENT APPLICATION: US/10/004,860                    TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:244; N Pos. 2459,2473,2475,2478  
Seq#:245; N Pos. 133,867,1338  
Seq#:246; N Pos. 651  
Seq#:247; N Pos. 20,35,36,37  
Seq#:248; N Pos. 776,907,1288  
Seq#:249; Xaa Pos. 31  
Seq#:250; Xaa Pos. 36,78,116  
Seq#:251; Xaa Pos. 103  
Seq#:252; Xaa Pos. 7,13,22  
Seq#:253; Xaa Pos. 32,37  
Seq#:254; Xaa Pos. 4,12,128  
Seq#:255; Xaa Pos. 8,67  
Seq#:256; Xaa Pos. 69  
Seq#:257; Xaa Pos. 36,37,44  
Seq#:258; Xaa Pos. 51  
Seq#:259; Xaa Pos. 43  
Seq#:260; Xaa Pos. 61  
Seq#:261; Xaa Pos. 36  
Seq#:262; Xaa Pos. 38  
Seq#:263; Xaa Pos. 5,211  
Seq#:264; Xaa Pos. 548  
Seq#:266; Xaa Pos. 8,40  
Seq#:267; Xaa Pos. 99  
Seq#:268; Xaa Pos. 131  
Seq#:269; Xaa Pos. 14,19,21  
Seq#:270; Xaa Pos. 109,118,122,127  
Seq#:271; Xaa Pos. 219  
Seq#:272; Xaa Pos. 41,48,50  
Seq#:273; Xaa Pos. 7,20,122  
Seq#:274; Xaa Pos. 53,88  
Seq#:275; Xaa Pos. 26  
Seq#:276; Xaa Pos. 29  
Seq#:277; Xaa Pos. 14,44  
Seq#:278; Xaa Pos. 307,363  
Seq#:279; Xaa Pos. 128  
Seq#:280; Xaa Pos. 54  
Seq#:282; Xaa Pos. 26  
Seq#:285; Xaa Pos. 6,38,49  
Seq#:286; Xaa Pos. 52  
Seq#:287; Xaa Pos. 32  
Seq#:288; Xaa Pos. 52,57  
Seq#:289; Xaa Pos. 22  
Seq#:290; Xaa Pos. 51  
Seq#:292; Xaa Pos. 44,66  
Seq#:293; Xaa Pos. 75,187,229,232,235,236,237,257  
Seq#:294; Xaa Pos. 78,80,81,82,103  
Seq#:295; Xaa Pos. 33  
Seq#:296; Xaa Pos. 10,43  
Seq#:297; Xaa Pos. 21

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 05/03/2002  
PATENT APPLICATION: US/10/004,860                    TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:298; Xaa Pos. 70  
Seq#:299; Xaa Pos. 75  
Seq#:300; Xaa Pos. 33  
Seq#:301; Xaa Pos. 17  
Seq#:302; Xaa Pos. 17  
Seq#:303; Xaa Pos. 9  
Seq#:304; Xaa Pos. 12  
Seq#:305; Xaa Pos. 35  
Seq#:306; Xaa Pos. 15  
Seq#:307; Xaa Pos. 44  
Seq#:309; Xaa Pos. 34  
Seq#:310; Xaa Pos. 137  
Seq#:311; Xaa Pos. 14,37,58  
Seq#:312; Xaa Pos. 35  
Seq#:313; Xaa Pos. 90  
Seq#:314; Xaa Pos. 95  
Seq#:315; Xaa Pos. 44  
Seq#:316; Xaa Pos. 31  
Seq#:317; Xaa Pos. 69,113  
Seq#:319; Xaa Pos. 35  
Seq#:320; Xaa Pos. 35  
Seq#:321; Xaa Pos. 82  
Seq#:322; Xaa Pos. 47,70,72  
Seq#:323; Xaa Pos. 10,34  
Seq#:324; Xaa Pos. 111,112,115  
Seq#:325; Xaa Pos. 98,99,100  
Seq#:326; Xaa Pos. 36,65  
Seq#:328; Xaa Pos. 36  
Seq#:329; Xaa Pos. 68  
Seq#:330; Xaa Pos. 105  
Seq#:332; Xaa Pos. 14,39  
Seq#:333; Xaa Pos. 58,72  
Seq#:334; Xaa Pos. 62  
Seq#:335; Xaa Pos. 286  
Seq#:336; Xaa Pos. 55  
Seq#:338; Xaa Pos. 120  
Seq#:339; Xaa Pos. 33  
Seq#:341; Xaa Pos. 18  
Seq#:342; Xaa Pos. 87  
Seq#:343; Xaa Pos. 538  
Seq#:344; Xaa Pos. 202  
Seq#:347; Xaa Pos. 48  
Seq#:348; Xaa Pos. 288,334  
Seq#:349; Xaa Pos. 4,193,200  
Seq#:350; Xaa Pos. 24  
Seq#:351; Xaa Pos. 85,131,143  
Seq#:352; Xaa Pos. 95  
Seq#:353; Xaa Pos. 38  
Seq#:354; Xaa Pos. 39

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 05/03/2002  
PATENT APPLICATION: US/10/004,860                    TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:355; Xaa Pos. 35,71  
Seq#:357; Xaa Pos. 50,53,59,60,61,64,65,90  
Seq#:358; Xaa Pos. 41  
Seq#:359; Xaa Pos. 56  
Seq#:360; Xaa Pos. 4,222  
Seq#:361; Xaa Pos. 64  
Seq#:362; Xaa Pos. 111,124,125,135,144,154  
Seq#:363; Xaa Pos. 17  
Seq#:364; Xaa Pos. 10  
Seq#:365; Xaa Pos. 14  
Seq#:366; Xaa Pos. 5,6,7,10,18  
Seq#:367; Xaa Pos. 62  
Seq#:368; Xaa Pos. 33  
Seq#:369; Xaa Pos. 79  
Seq#:370; Xaa Pos. 35  
Seq#:371; Xaa Pos. 22  
Seq#:372; Xaa Pos. 82  
Seq#:373; Xaa Pos. 7,42,43  
Seq#:374; Xaa Pos. 4,7,20,25,28,31  
Seq#:375; Xaa Pos. 32,57  
Seq#:376; Xaa Pos. 14  
Seq#:378; Xaa Pos. 45  
Seq#:379; Xaa Pos. 15  
Seq#:380; Xaa Pos. 34  
Seq#:381; Xaa Pos. 14,62  
Seq#:382; Xaa Pos. 207  
Seq#:383; Xaa Pos. 20,23,31  
Seq#:384; Xaa Pos. 43  
Seq#:385; Xaa Pos. 255  
Seq#:386; Xaa Pos. 2,20  
Seq#:387; Xaa Pos. 6,64  
Seq#:388; Xaa Pos. 40  
Seq#:389; Xaa Pos. 35  
Seq#:390; Xaa Pos. 11  
Seq#:391; Xaa Pos. 64  
Seq#:392; Xaa Pos. 19  
Seq#:394; Xaa Pos. 17  
Seq#:395; Xaa Pos. 84  
Seq#:396; Xaa Pos. 19,21  
Seq#:397; Xaa Pos. 29  
Seq#:398; Xaa Pos. 34  
Seq#:399; Xaa Pos. 47  
Seq#:400; Xaa Pos. 21,25  
Seq#:401; Xaa Pos. 68  
Seq#:403; Xaa Pos. 15  
Seq#:405; Xaa Pos. 68,72,83,103,110,121,123,126,134,154  
Seq#:408; Xaa Pos. 447  
Seq#:410; Xaa Pos. 24  
Seq#:411; Xaa Pos. 35

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 05/03/2002  
PATENT APPLICATION: US/10/004,860                    TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:413; Xaa Pos. 25  
Seq#:414; Xaa Pos. 79  
Seq#:415; Xaa Pos. 20,28  
Seq#:416; Xaa Pos. 100  
Seq#:417; Xaa Pos. 144,263  
Seq#:418; Xaa Pos. 33  
Seq#:419; Xaa Pos. 53,80  
Seq#:420; Xaa Pos. 82,83,95  
Seq#:423; Xaa Pos. 29,31  
Seq#:424; Xaa Pos. 179  
Seq#:429; Xaa Pos. 61,105,117,219  
Seq#:430; Xaa Pos. 51  
Seq#:431; Xaa Pos. 27,50  
Seq#:432; Xaa Pos. 33,39,55,70  
Seq#:433; Xaa Pos. 40  
Seq#:435; Xaa Pos. 38  
Seq#:436; Xaa Pos. 35  
Seq#:437; Xaa Pos. 32  
Seq#:438; Xaa Pos. 127  
Seq#:439; Xaa Pos. 10,69  
Seq#:440; Xaa Pos. 92  
Seq#:441; Xaa Pos. 264,296,380  
Seq#:442; Xaa Pos. 17,21,23,24  
Seq#:443; Xaa Pos. 33,47  
Seq#:445; Xaa Pos. 144  
Seq#:446; Xaa Pos. 37  
Seq#:447; Xaa Pos. 31,37  
Seq#:448; Xaa Pos. 47,192  
Seq#:449; Xaa Pos. 31  
Seq#:450; Xaa Pos. 44,46,77,78,101  
Seq#:451; Xaa Pos. 37  
Seq#:452; Xaa Pos. 42  
Seq#:454; Xaa Pos. 25  
Seq#:456; Xaa Pos. 42  
Seq#:457; Xaa Pos. 15,66  
Seq#:459; Xaa Pos. 31  
Seq#:460; Xaa Pos. 57  
Seq#:461; Xaa Pos. 338,416  
Seq#:462; Xaa Pos. 56  
Seq#:463; Xaa Pos. 80,93,206  
Seq#:464; Xaa Pos. 38  
Seq#:465; Xaa Pos. 136  
Seq#:466; Xaa Pos. 17,18,25,50  
Seq#:467; Xaa Pos. 27,49,71  
Seq#:468; Xaa Pos. 59  
Seq#:469; Xaa Pos. 27,34,35,37,38,46,59  
Seq#:470; Xaa Pos. 17,62  
Seq#:471; Xaa Pos. 103,302,305,316  
Seq#:472; Xaa Pos. 24

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 05/03/2002  
PATENT APPLICATION: US/10/004,860                    TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:473; Xaa Pos. 10  
Seq#:474; Xaa Pos. 36,44,85  
Seq#:475; Xaa Pos. 26  
Seq#:476; Xaa Pos. 34  
Seq#:477; Xaa Pos. 151,172  
Seq#:478; Xaa Pos. 8,27,61  
Seq#:479; Xaa Pos. 3  
Seq#:480; Xaa Pos. 11,35,38,96  
Seq#:481; Xaa Pos. 159,171  
Seq#:482; Xaa Pos. 111,575  
Seq#:483; Xaa Pos. 29,31,43,92  
Seq#:484; Xaa Pos. 13,14  
Seq#:485; Xaa Pos. 54  
Seq#:486; Xaa Pos. 7,11,16,22  
Seq#:490; Xaa Pos. 9  
Seq#:491; Xaa Pos. 5  
Seq#:492; Xaa Pos. 87,95  
Seq#:494; Xaa Pos. 37,45  
Seq#:504; Xaa Pos. 39,40,112  
Seq#:505; Xaa Pos. 65  
Seq#:506; Xaa Pos. 39,40  
Seq#:508; Xaa Pos. 17  
Seq#:514; Xaa Pos. 18  
Seq#:520; Xaa Pos. 4  
Seq#:521; Xaa Pos. 4  
Seq#:545; Xaa Pos. 10,17  
Seq#:547; Xaa Pos. 8,34,38  
Seq#:548; Xaa Pos. 8,34,38  
Seq#:551; Xaa Pos. 16,17,20,24,36,43  
Seq#:552; Xaa Pos. 31  
Seq#:553; Xaa Pos. 68,124,211  
Seq#:554; Xaa Pos. 35  
Seq#:558; Xaa Pos. 320,334,337,339,341,345,350,352,355,360  
Seq#:563; Xaa Pos. 36  
Seq#:573; Xaa Pos. 409  
Seq#:579; Xaa Pos. 19  
Seq#:587; Xaa Pos. 23,35  
Seq#:588; Xaa Pos. 25,40,42,174,186  
Seq#:589; Xaa Pos. 44,81,125,142  
Seq#:613; Xaa Pos. 35,71  
Seq#:615; Xaa Pos. 43,155  
Seq#:621; Xaa Pos. 30,31,34,37  
Seq#:627; Xaa Pos. 77  
Seq#:629; Xaa Pos. 22  
Seq#:633; Xaa Pos. 56,57,60,83,84,165  
Seq#:635; Xaa Pos. 77  
Seq#:637; Xaa Pos. 7  
Seq#:639; Xaa Pos. 15  
Seq#:644; Xaa Pos. 105,115

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PATENT APPLICATION: US/10/004,860                    TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:647; Xaa Pos. 8,13  
Seq#:652; Xaa Pos. 131,145  
Seq#:659; Xaa Pos. 10  
Seq#:667; Xaa Pos. 105  
Seq#:672; Xaa Pos. 8,145  
Seq#:677; Xaa Pos. 87  
Seq#:688; Xaa Pos. 12  
Seq#:689; Xaa Pos. 61  
Seq#:690; Xaa Pos. 56  
Seq#:699; Xaa Pos. 83  
Seq#:703; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,38  
Seq#:711; Xaa Pos. 29  
Seq#:713; Xaa Pos. 76,80,90,98,113  
Seq#:718; N Pos. 24  
Seq#:728; Xaa Pos. 8  
Seq#:729; Xaa Pos. 46,50  
Seq#:730; Xaa Pos. 34,38  
Seq#:733; Xaa Pos. 127  
Seq#:736; Xaa Pos. 48  
Seq#:758; Xaa Pos. 26  
Seq#:762; Xaa Pos. 67,86  
Seq#:767; Xaa Pos. 17  
Seq#:769; Xaa Pos. 46  
Seq#:770; Xaa Pos. 27,38  
Seq#:780; Xaa Pos. 45,46,47  
Seq#:781; Xaa Pos. 34,66,79  
Seq#:784; Xaa Pos. 90  
Seq#:787; Xaa Pos. 43,60  
Seq#:788; Xaa Pos. 41,97,103  
Seq#:790; Xaa Pos. 8  
Seq#:791; Xaa Pos. 7  
Seq#:792; Xaa Pos. 2,24,45,46  
Seq#:793; Xaa Pos. 53  
Seq#:808; Xaa Pos. 48,55  
Seq#:809; Xaa Pos. 5  
Seq#:811; Xaa Pos. 72  
Seq#:812; Xaa Pos. 16,38  
Seq#:815; Xaa Pos. 72,111,127,149  
Seq#:817; Xaa Pos. 12,28,50  
Seq#:878; Xaa Pos. 197  
Seq#:879; Xaa Pos. 178  
Seq#:904; Xaa Pos. 16,27,65  
Seq#:905; Xaa Pos. 7  
Seq#:907; Xaa Pos. 4  
Seq#:938; Xaa Pos. 21  
Seq#:940; Xaa Pos. 124  
Seq#:941; Xaa Pos. 47  
Seq#:944; Xaa Pos. 124,178  
Seq#:945; Xaa Pos. 10

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/03/2002  
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Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:958; Xaa Pos. 10  
Seq#:959; Xaa Pos. 10  
Seq#:965; Xaa Pos. 25,26,90,94,105,120  
Seq#:966; Xaa Pos. 25,26  
Seq#:968; Xaa Pos. 11,15,26,41  
Seq#:971; Xaa Pos. 2,3,4  
Seq#:975; Xaa Pos. 37  
Seq#:977; Xaa Pos. 14  
Seq#:978; Xaa Pos. 29  
Seq#:999; Xaa Pos. 19,62  
Seq#:1002; Xaa Pos. 19  
Seq#:1003; Xaa Pos. 33  
Seq#:1007; Xaa Pos. 20,63  
Seq#:1008; Xaa Pos. 259,312  
Seq#:1010; Xaa Pos. 135  
Seq#:1011; Xaa Pos. 65,118  
Seq#:1012; Xaa Pos. 15,258  
Seq#:1015; Xaa Pos. 42  
Seq#:1017; Xaa Pos. 34,46,47,65  
Seq#:1036; Xaa Pos. 189  
Seq#:1039; Xaa Pos. 63  
Seq#:1041; Xaa Pos. 96,97,98,99,100,101,102,103,104,105,106,107,108,109,110  
Seq#:1041; Xaa Pos. 111,112,130  
Seq#:1043; Xaa Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,46  
Seq#:1056; Xaa Pos. 130  
Seq#:1058; Xaa Pos. 42  
Seq#:1059; Xaa Pos. 130  
Seq#:1060; Xaa Pos. 112  
Seq#:1079; Xaa Pos. 152,314,359  
Seq#:1081; Xaa Pos. 42  
Seq#:1082; Xaa Pos. 75  
Seq#:1083; Xaa Pos. 8  
Seq#:1084; Xaa Pos. 10  
Seq#:1085; Xaa Pos. 64  
Seq#:1088; Xaa Pos. 94  
Seq#:1092; Xaa Pos. 73  
Seq#:1094; Xaa Pos. 83,136  
Seq#:1097; Xaa Pos. 11,28,67  
Seq#:1103; Xaa Pos. 112,231  
Seq#:1108; Xaa Pos. 25  
Seq#:1109; Xaa Pos. 53  
Seq#:1112; Xaa Pos. 28  
Seq#:1115; Xaa Pos. 16,24  
Seq#:1116; Xaa Pos. 11,15,35,36,39,40,45,91,255,256,257,258  
Seq#:1117; Xaa Pos. 52,164,209,210,211  
Seq#:1118; Xaa Pos. 151,197,198,202,203,206,207,227  
Seq#:1135; Xaa Pos. 50  
Seq#:1136; Xaa Pos. 16  
Seq#:1152; Xaa Pos. 21,22

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 05/03/2002  
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Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:1159; Xaa Pos. 103,153  
Seq#:1161; Xaa Pos. 22  
Seq#:1162; Xaa Pos. 109,159  
Seq#:1169; Xaa Pos. 22,34,102  
Seq#:1170; Xaa Pos. 22  
Seq#:1171; Xaa Pos. 22  
Seq#:1172; Xaa Pos. 22  
Seq#:1173; Xaa Pos. 22  
Seq#:1174; Xaa Pos. 22  
Seq#:1180; Xaa Pos. 114,182,194  
Seq#:1202; Xaa Pos. 49,50,51,52,53

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002  
TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:2; Xaa Pos. 3  
Seq#:12; N Pos. 839  
Seq#:14; N Pos. 2,19,87,89,525  
Seq#:16; N Pos. 25,478,661  
Seq#:17; N Pos. 507  
Seq#:18; N Pos. 635  
Seq#:19; N Pos. 930  
Seq#:21; N Pos. 1470  
Seq#:23; N Pos. 301  
Seq#:24; N Pos. 834  
Seq#:26; N Pos. 1022  
Seq#:27; N Pos. 1892,1930,1934  
Seq#:28; N Pos. 17  
Seq#:29; N Pos. 110,3690,3716  
Seq#:30; N Pos. 1628  
Seq#:31; N Pos. 1385,1395  
Seq#:32; N Pos. 24,666,682,3181,3184  
Seq#:33; N Pos. 957,964  
Seq#:34; N Pos. 1767,1768  
Seq#:35; N Pos. 6,8,870,877  
Seq#:37; N Pos. 787  
Seq#:39; N Pos. 794,806,810  
Seq#:40; N Pos. 69  
Seq#:42; N Pos. 196,226,302,596,952  
Seq#:43; N Pos. 1801  
Seq#:45; N Pos. 976  
Seq#:48; N Pos. 593,2049  
Seq#:49; N Pos. 35,570  
Seq#:50; N Pos. 1486  
Seq#:53; N Pos. 17,1514,1551,1556  
Seq#:55; N Pos. 751,879,888,897,899,901  
Seq#:56; N Pos. 328,336,341,788  
Seq#:57; N Pos. 250,1051,1052  
Seq#:58; N Pos. 3,6,32,751,770,784  
Seq#:59; N Pos. 345,1024,1098,1186  
Seq#:60; N Pos. 410,476  
Seq#:61; N Pos. 24,39,548,560,562,584  
Seq#:62; N Pos. 158,159,202  
Seq#:63; N Pos. 2,4,12,738,776  
Seq#:64; N Pos. 565,566  
Seq#:65; N Pos. 1,13,15  
Seq#:66; N Pos. 262,674  
Seq#:67; N Pos. 668,745,1015,1088,1110,1113

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/10/004,860

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Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:71; N Pos. 884  
Seq#:72; N Pos. 584  
Seq#:74; N Pos. 20,92,886  
Seq#:76; N Pos. 12,27,30,35,76  
Seq#:81; N Pos. 38,41,1128,1129,1440  
Seq#:82; N Pos. 1379  
Seq#:86; N Pos. 1020,1024,1032  
Seq#:87; N Pos. 805  
Seq#:90; N Pos. 12,123,1522,1527  
Seq#:92; N Pos. 62,126  
Seq#:96; N Pos. 416,471,490,732,835  
Seq#:97; N Pos. 332  
Seq#:99; N Pos. 24,39,255  
Seq#:104; N Pos. 544,774  
Seq#:106; N Pos. 724  
Seq#:107; N Pos. 1,6  
Seq#:109; N Pos. 19,21,47,607,610  
Seq#:110; N Pos. 67,2620  
Seq#:111; N Pos. 1579,2226  
Seq#:112; N Pos. 123,621,640  
Seq#:115; N Pos. 79,2297,3679  
Seq#:116; N Pos. 51,476,1136  
Seq#:119; N Pos. 147,376,395,1101  
Seq#:121; N Pos. 2605  
Seq#:123; N Pos. 1445,1515,1520,1535  
Seq#:124; N Pos. 498,499  
Seq#:125; N Pos. 1286  
Seq#:126; N Pos. 159,1123,1510  
Seq#:127; N Pos. 495  
Seq#:128; N Pos. 273,294  
Seq#:129; N Pos. 1152  
Seq#:130; N Pos. 2,471,472  
Seq#:131; N Pos. 132,225,249,577,1933  
Seq#:132; N Pos. 657,852,859,962  
Seq#:134; N Pos. 349,409  
Seq#:137; N Pos. 248,1004,1014  
Seq#:138; N Pos. 58,118,237,661  
Seq#:140; N Pos. 404  
Seq#:141; N Pos. 623,626,638  
Seq#:142; N Pos. 901  
Seq#:143; N Pos. 268,284  
Seq#:144; N Pos. 929  
Seq#:145; N Pos. 265,354,1064,1081  
Seq#:146; N Pos. 1126,4015  
Seq#:147; N Pos. 1053  
Seq#:149; N Pos. 604,842,1079,1334  
Seq#:150; N Pos. 45  
Seq#:151; N Pos. 73,90,128,219,255,272,2354,2364  
Seq#:152; N Pos. 105,730,755,757,777

VARIABLE LOCATION SUMMARY  
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Input Set : N:\Crf3\RULE60\10004860.raw  
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:153; N Pos. 77,437  
Seq#:157; N Pos. 312,1212  
Seq#:158; N Pos. 44,1066  
Seq#:159; N Pos. 334,505,1044,1670,1678,1683,1684  
Seq#:160; N Pos. 19,62,1793,1834  
Seq#:161; N Pos. 744  
Seq#:163; N Pos. 720,730,736,741  
Seq#:165; N Pos. 101,1670,2134,2135  
Seq#:167; N Pos. 522,752  
Seq#:168; N Pos. 161  
Seq#:171; N Pos. 1961,1999  
Seq#:175; N Pos. 44,1881  
Seq#:176; N Pos. 407,408,1331  
Seq#:177; N Pos. 446,470,1024  
Seq#:179; N Pos. 622  
Seq#:181; N Pos. 35,45,135  
Seq#:185; N Pos. 1337  
Seq#:190; N Pos. 144,145  
Seq#:191; N Pos. 561,1414,1422,1427  
Seq#:192; N Pos. 13,1324,1643  
Seq#:193; N Pos. 112,147  
Seq#:194; N Pos. 283,301,349,438  
Seq#:197; N Pos. 675,1195  
Seq#:199; N Pos. 1310,1736,1737  
Seq#:204; N Pos. 31,50,132,751  
Seq#:205; N Pos. 264,340  
Seq#:208; N Pos. 422,847,856,872  
Seq#:210; N Pos. 750  
Seq#:211; N Pos. 200  
Seq#:212; N Pos. 420,1017,1408,1423  
Seq#:214; N Pos. 450,451,454,1485,1492  
Seq#:215; N Pos. 7,9,1241,1247  
Seq#:216; N Pos. 1281,1704  
Seq#:222; N Pos. 241,954,961  
Seq#:223; N Pos. 1351  
Seq#:224; N Pos. 1,705,706,707  
Seq#:226; N Pos. 773  
Seq#:227; N Pos. 344  
Seq#:228; N Pos. 462,469  
Seq#:229; N Pos. 303,392  
Seq#:230; N Pos. 1,1921,1927  
Seq#:231; N Pos. 1032,1034  
Seq#:232; N Pos. 438,741  
Seq#:234; N Pos. 775,2080,2083  
Seq#:235; N Pos. 2058,2080,2115,2132  
Seq#:236; N Pos. 528,552,1133  
Seq#:240; N Pos. 651,1064  
Seq#:241; N Pos. 830  
Seq#:242; N Pos. 2,4,16,1810,1811

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Seq#:243; N Pos. 553,2267,2269,2271  
Seq#:244; N Pos. 2459,2473,2475,2478  
Seq#:245; N Pos. 133,867,1338  
Seq#:246; N Pos. 651  
Seq#:247; N Pos. 20,35,36,37  
Seq#:248; N Pos. 776,907,1288  
Seq#:249; Xaa Pos. 31  
Seq#:250; Xaa Pos. 36,78,116  
Seq#:251; Xaa Pos. 103  
Seq#:252; Xaa Pos. 7,13,22  
Seq#:253; Xaa Pos. 32,37  
Seq#:254; Xaa Pos. 4,12,128  
Seq#:255; Xaa Pos. 8,67  
Seq#:256; Xaa Pos. 69  
Seq#:257; Xaa Pos. 36,37,44  
Seq#:258; Xaa Pos. 51  
Seq#:259; Xaa Pos. 43  
Seq#:260; Xaa Pos. 61  
Seq#:261; Xaa Pos. 36  
Seq#:262; Xaa Pos. 38  
Seq#:263; Xaa Pos. 5,211  
Seq#:264; Xaa Pos. 548  
Seq#:266; Xaa Pos. 8,40  
Seq#:267; Xaa Pos. 99  
Seq#:268; Xaa Pos. 131  
Seq#:269; Xaa Pos. 14,19,21  
Seq#:270; Xaa Pos. 109,118,122,127  
Seq#:271; Xaa Pos. 219  
Seq#:272; Xaa Pos. 41,48,50  
Seq#:273; Xaa Pos. 7,20,122  
Seq#:274; Xaa Pos. 53,88  
Seq#:275; Xaa Pos. 26  
Seq#:276; Xaa Pos. 29  
Seq#:277; Xaa Pos. 14,44  
Seq#:278; Xaa Pos. 307,363  
Seq#:279; Xaa Pos. 128  
Seq#:280; Xaa Pos. 54  
Seq#:282; Xaa Pos. 26  
Seq#:285; Xaa Pos. 6,38,49  
Seq#:286; Xaa Pos. 52  
Seq#:287; Xaa Pos. 32  
Seq#:288; Xaa Pos. 52,57  
Seq#:289; Xaa Pos. 22  
Seq#:290; Xaa Pos. 51  
Seq#:292; Xaa Pos. 44,66  
Seq#:293; Xaa Pos. 75,187,229,232,235,236,237,257  
Seq#:294; Xaa Pos. 78,80,81,82,103  
Seq#:295; Xaa Pos. 33  
Seq#:296; Xaa Pos. 10,43

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Seq#:297; Xaa Pos. 21  
Seq#:298; Xaa Pos. 70  
Seq#:299; Xaa Pos. 75  
Seq#:300; Xaa Pos. 33  
Seq#:301; Xaa Pos. 17  
Seq#:302; Xaa Pos. 17  
Seq#:303; Xaa Pos. 9  
Seq#:304; Xaa Pos. 12  
Seq#:305; Xaa Pos. 35  
Seq#:306; Xaa Pos. 15  
Seq#:307; Xaa Pos. 44  
Seq#:309; Xaa Pos. 34  
Seq#:310; Xaa Pos. 137  
Seq#:311; Xaa Pos. 14,37,58  
Seq#:312; Xaa Pos. 35  
Seq#:313; Xaa Pos. 90  
Seq#:314; Xaa Pos. 95  
Seq#:315; Xaa Pos. 44  
Seq#:316; Xaa Pos. 31  
Seq#:317; Xaa Pos. 69,113  
Seq#:319; Xaa Pos. 35  
Seq#:320; Xaa Pos. 35  
Seq#:321; Xaa Pos. 82  
Seq#:322; Xaa Pos. 47,70,72  
Seq#:323; Xaa Pos. 10,34  
Seq#:324; Xaa Pos. 111,112,115  
Seq#:325; Xaa Pos. 98,99,100  
Seq#:326; Xaa Pos. 36,65  
Seq#:328; Xaa Pos. 36  
Seq#:329; Xaa Pos. 68  
Seq#:330; Xaa Pos. 105  
Seq#:332; Xaa Pos. 14,39  
Seq#:333; Xaa Pos. 58,72  
Seq#:334; Xaa Pos. 62  
Seq#:335; Xaa Pos. 286  
Seq#:336; Xaa Pos. 55  
Seq#:338; Xaa Pos. 120  
Seq#:339; Xaa Pos. 33  
Seq#:341; Xaa Pos. 18  
Seq#:342; Xaa Pos. 87  
Seq#:343; Xaa Pos. 538  
Seq#:344; Xaa Pos. 202  
Seq#:347; Xaa Pos. 48  
Seq#:348; Xaa Pos. 288,334  
Seq#:349; Xaa Pos. 4,193,200  
Seq#:350; Xaa Pos. 24  
Seq#:351; Xaa Pos. 85,131,143  
Seq#:352; Xaa Pos. 95  
Seq#:353; Xaa Pos. 38

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Seq#:354; Xaa Pos. 39  
Seq#:355; Xaa Pos. 35,71  
Seq#:357; Xaa Pos. 50,53,59,60,61,64,65,90  
Seq#:358; Xaa Pos. 41  
Seq#:359; Xaa Pos. 56  
Seq#:360; Xaa Pos. 4,222  
Seq#:361; Xaa Pos. 64  
Seq#:362; Xaa Pos. 111,124,125,135,144,154  
Seq#:363; Xaa Pos. 17  
Seq#:364; Xaa Pos. 10  
Seq#:365; Xaa Pos. 14  
Seq#:366; Xaa Pos. 5,6,7,10,18  
Seq#:367; Xaa Pos. 62  
Seq#:368; Xaa Pos. 33  
Seq#:369; Xaa Pos. 79  
Seq#:370; Xaa Pos. 35  
Seq#:371; Xaa Pos. 22  
Seq#:372; Xaa Pos. 82  
Seq#:373; Xaa Pos. 7,42,43  
Seq#:374; Xaa Pos. 4,7,20,25,28,31  
Seq#:375; Xaa Pos. 32,57  
Seq#:376; Xaa Pos. 14  
Seq#:378; Xaa Pos. 45  
Seq#:379; Xaa Pos. 15  
Seq#:380; Xaa Pos. 34  
Seq#:381; Xaa Pos. 14,62  
Seq#:382; Xaa Pos. 207  
Seq#:383; Xaa Pos. 20,23,31  
Seq#:384; Xaa Pos. 43  
Seq#:385; Xaa Pos. 255  
Seq#:386; Xaa Pos. 2,20  
Seq#:387; Xaa Pos. 6,64  
Seq#:388; Xaa Pos. 40  
Seq#:389; Xaa Pos. 35  
Seq#:390; Xaa Pos. 11  
Seq#:391; Xaa Pos. 64  
Seq#:392; Xaa Pos. 19  
Seq#:394; Xaa Pos. 17  
Seq#:395; Xaa Pos. 84  
Seq#:396; Xaa Pos. 19,21  
Seq#:397; Xaa Pos. 29  
Seq#:398; Xaa Pos. 34  
Seq#:399; Xaa Pos. 47  
Seq#:400; Xaa Pos. 21,25  
Seq#:401; Xaa Pos. 68  
Seq#:403; Xaa Pos. 15  
Seq#:405; Xaa Pos. 68,72,83,103,110,121,123,126,134,154  
Seq#:408; Xaa Pos. 447  
Seq#:410; Xaa Pos. 24

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Seq#:411; Xaa Pos. 35  
Seq#:413; Xaa Pos. 25  
Seq#:414; Xaa Pos. 79  
Seq#:415; Xaa Pos. 20,28  
Seq#:416; Xaa Pos. 100  
Seq#:417; Xaa Pos. 144,263  
Seq#:418; Xaa Pos. 33  
Seq#:419; Xaa Pos. 53,80  
Seq#:420; Xaa Pos. 82,83,95  
Seq#:423; Xaa Pos. 29,31  
Seq#:424; Xaa Pos. 179  
Seq#:429; Xaa Pos. 61,105,117,219  
Seq#:430; Xaa Pos. 51  
Seq#:431; Xaa Pos. 27,50  
Seq#:432; Xaa Pos. 33,39,55,70  
Seq#:433; Xaa Pos. 40  
Seq#:435; Xaa Pos. 38  
Seq#:436; Xaa Pos. 35  
Seq#:437; Xaa Pos. 32  
Seq#:438; Xaa Pos. 127  
Seq#:439; Xaa Pos. 10,69  
Seq#:440; Xaa Pos. 92  
Seq#:441; Xaa Pos. 264,296,380  
Seq#:442; Xaa Pos. 17,21,23,24  
Seq#:443; Xaa Pos. 33,47  
Seq#:445; Xaa Pos. 144  
Seq#:446; Xaa Pos. 37  
Seq#:447; Xaa Pos. 31,37  
Seq#:448; Xaa Pos. 47,192  
Seq#:449; Xaa Pos. 31  
Seq#:450; Xaa Pos. 44,46,77,78,101  
Seq#:451; Xaa Pos. 37  
Seq#:452; Xaa Pos. 42  
Seq#:454; Xaa Pos. 25  
Seq#:456; Xaa Pos. 42  
Seq#:457; Xaa Pos. 15,66  
Seq#:459; Xaa Pos. 31  
Seq#:460; Xaa Pos. 57  
Seq#:461; Xaa Pos. 338,416  
Seq#:462; Xaa Pos. 56  
Seq#:463; Xaa Pos. 80,93,206  
Seq#:464; Xaa Pos. 38  
Seq#:465; Xaa Pos. 136  
Seq#:466; Xaa Pos. 17,18,25,50  
Seq#:467; Xaa Pos. 27,49,71  
Seq#:468; Xaa Pos. 59  
Seq#:469; Xaa Pos. 27,34,35,37,38,46,59  
Seq#:470; Xaa Pos. 17,62  
Seq#:471; Xaa Pos. 103,302,305,316

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Seq#:472; Xaa Pos. 24  
Seq#:473; Xaa Pos. 10  
Seq#:474; Xaa Pos. 36,44,85  
Seq#:475; Xaa Pos. 26  
Seq#:476; Xaa Pos. 34  
Seq#:477; Xaa Pos. 151,172  
Seq#:478; Xaa Pos. 8,27,61  
Seq#:479; Xaa Pos. 3  
Seq#:480; Xaa Pos. 11,35,38,96  
Seq#:481; Xaa Pos. 159,171  
Seq#:482; Xaa Pos. 111,575  
Seq#:483; Xaa Pos. 29,31,43,92  
Seq#:484; Xaa Pos. 13,14  
Seq#:485; Xaa Pos. 54  
Seq#:486; Xaa Pos. 7,11,16,22  
Seq#:490; Xaa Pos. 9  
Seq#:491; Xaa Pos. 5  
Seq#:492; Xaa Pos. 87,95  
Seq#:494; Xaa Pos. 37,45  
Seq#:504; Xaa Pos. 39,40,112  
Seq#:505; Xaa Pos. 65  
Seq#:506; Xaa Pos. 39,40  
Seq#:508; Xaa Pos. 17  
Seq#:514; Xaa Pos. 18  
Seq#:520; Xaa Pos. 4  
Seq#:521; Xaa Pos. 4  
Seq#:545; Xaa Pos. 10,17  
Seq#:547; Xaa Pos. 8,34,38  
Seq#:548; Xaa Pos. 8,34,38  
Seq#:551; Xaa Pos. 16,17,20,24,36,43  
Seq#:552; Xaa Pos. 31  
Seq#:553; Xaa Pos. 68,124,211  
Seq#:554; Xaa Pos. 35  
Seq#:558; Xaa Pos. 320,334,337,339,341,345,350,352,355,360  
Seq#:563; Xaa Pos. 36  
Seq#:573; Xaa Pos. 409  
Seq#:579; Xaa Pos. 19  
Seq#:587; Xaa Pos. 23,35  
Seq#:588; Xaa Pos. 25,40,42,174,186  
Seq#:589; Xaa Pos. 44,81,125,142  
Seq#:613; Xaa Pos. 35,71  
Seq#:615; Xaa Pos. 43,155  
Seq#:621; Xaa Pos. 30,31,34,37  
Seq#:627; Xaa Pos. 77  
Seq#:629; Xaa Pos. 22  
Seq#:633; Xaa Pos. 56,57,60,83,84,165  
Seq#:635; Xaa Pos. 77  
Seq#:637; Xaa Pos. 7  
Seq#:639; Xaa Pos. 15

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Seq#:644; Xaa Pos. 105,115  
Seq#:647; Xaa Pos. 8,13  
Seq#:652; Xaa Pos. 131,145  
Seq#:659; Xaa Pos. 10  
Seq#:667; Xaa Pos. 105  
Seq#:672; Xaa Pos. 8,145  
Seq#:677; Xaa Pos. 87  
Seq#:688; Xaa Pos. 12  
Seq#:689; Xaa Pos. 61  
Seq#:690; Xaa Pos. 56  
Seq#:699; Xaa Pos. 83  
Seq#:703; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,38  
Seq#:711; Xaa Pos. 29  
Seq#:713; Xaa Pos. 76,80,90,98,113  
Seq#:718; N Pos. 24  
Seq#:728; Xaa Pos. 8  
Seq#:729; Xaa Pos. 46,50  
Seq#:730; Xaa Pos. 34,38  
Seq#:733; Xaa Pos. 127  
Seq#:736; Xaa Pos. 48  
Seq#:758; Xaa Pos. 26  
Seq#:762; Xaa Pos. 67,86  
Seq#:767; Xaa Pos. 17  
Seq#:769; Xaa Pos. 46  
Seq#:770; Xaa Pos. 27,38  
Seq#:780; Xaa Pos. 45,46,47  
Seq#:781; Xaa Pos. 34,66,79  
Seq#:784; Xaa Pos. 90  
Seq#:787; Xaa Pos. 43,60  
Seq#:788; Xaa Pos. 41,97,103  
Seq#:790; Xaa Pos. 8  
Seq#:791; Xaa Pos. 7  
Seq#:792; Xaa Pos. 2,24,45,46  
Seq#:793; Xaa Pos. 53  
Seq#:808; Xaa Pos. 48,55  
Seq#:809; Xaa Pos. 5  
Seq#:811; Xaa Pos. 72  
Seq#:812; Xaa Pos. 16,38  
Seq#:815; Xaa Pos. 72,111,127,149  
Seq#:817; Xaa Pos. 12,28,50  
Seq#:878; Xaa Pos. 197  
Seq#:879; Xaa Pos. 178  
Seq#:904; Xaa Pos. 16,27,65  
Seq#:905; Xaa Pos. 7  
Seq#:907; Xaa Pos. 4  
Seq#:938; Xaa Pos. 21  
Seq#:940; Xaa Pos. 124  
Seq#:941; Xaa Pos. 47  
Seq#:944; Xaa Pos. 124,178

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Seq#:945; Xaa Pos. 10  
Seq#:958; Xaa Pos. 10  
Seq#:959; Xaa Pos. 10  
Seq#:965; Xaa Pos. 25,26,90,94,105,120  
Seq#:966; Xaa Pos. 25,26  
Seq#:968; Xaa Pos. 11,15,26,41  
Seq#:971; Xaa Pos. 2,3,4  
Seq#:975; Xaa Pos. 37  
Seq#:977; Xaa Pos. 14  
Seq#:978; Xaa Pos. 29  
Seq#:999; Xaa Pos. 19,62  
Seq#:1002; Xaa Pos. 19  
Seq#:1003; Xaa Pos. 33  
Seq#:1007; Xaa Pos. 20,63  
Seq#:1008; Xaa Pos. 259,312  
Seq#:1010; Xaa Pos. 135  
Seq#:1011; Xaa Pos. 65,118  
Seq#:1012; Xaa Pos. 15,258  
Seq#:1015; Xaa Pos. 42  
Seq#:1017; Xaa Pos. 34,46,47,65  
Seq#:1036; Xaa Pos. 189  
Seq#:1039; Xaa Pos. 63  
Seq#:1041; Xaa Pos. 96,97,98,99,100,101,102,103,104,105,106,107,108,109,110  
Seq#:1041; Xaa Pos. 111,112,130  
Seq#:1043; Xaa Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,46  
Seq#:1056; Xaa Pos. 130  
Seq#:1058; Xaa Pos. 42  
Seq#:1059; Xaa Pos. 130  
Seq#:1060; Xaa Pos. 112  
Seq#:1079; Xaa Pos. 152,314,359  
Seq#:1081; Xaa Pos. 42  
Seq#:1082; Xaa Pos. 75  
Seq#:1083; Xaa Pos. 8  
Seq#:1084; Xaa Pos. 10  
Seq#:1085; Xaa Pos. 64  
Seq#:1088; Xaa Pos. 94  
Seq#:1092; Xaa Pos. 73  
Seq#:1094; Xaa Pos. 83,136  
Seq#:1097; Xaa Pos. 11,28,67  
Seq#:1103; Xaa Pos. 112,231  
Seq#:1108; Xaa Pos. 25  
Seq#:1109; Xaa Pos. 53  
Seq#:1112; Xaa Pos. 28  
Seq#:1115; Xaa Pos. 16,24  
Seq#:1116; Xaa Pos. 11,15,35,36,39,40,45,91,255,256,257,258  
Seq#:1117; Xaa Pos. 52,164,209,210,211  
Seq#:1118; Xaa Pos. 151,197,198,202,203,206,207,227  
Seq#:1135; Xaa Pos. 50  
Seq#:1136; Xaa Pos. 16

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Seq#:1152; Xaa Pos. 21,22  
Seq#:1159; Xaa Pos. 103,153  
Seq#:1161; Xaa Pos. 22  
Seq#:1162; Xaa Pos. 109,159  
Seq#:1169; Xaa Pos. 22,34,102  
Seq#:1170; Xaa Pos. 22  
Seq#:1171; Xaa Pos. 22  
Seq#:1172; Xaa Pos. 22  
Seq#:1173; Xaa Pos. 22  
Seq#:1174; Xaa Pos. 22  
Seq#:1180; Xaa Pos. 114,182,194  
Seq#:1202; Xaa Pos. 49,50,51,52,53

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L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:780  
L:424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:60  
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:480  
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:420  
L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:660  
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480  
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:600  
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:900  
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:1440  
L:700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:300  
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:780  
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1020  
L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:1860  
L:873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:1920  
L:887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:60  
L:1038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:3660  
L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:1620  
L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:1380  
L:1156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:1167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:660  
L:1209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:3180  
L:1243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:900  
L:1244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:960  
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:1740  
L:1321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:840  
L:1386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:780  
L:1456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:780  
L:1471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60  
L:1552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:180  
L:1554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:300  
L:1558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:540  
L:1564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:900  
L:1611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1800  
L:1667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:960  
L:1766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:540  
L:1791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:2040  
L:1816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
L:1825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:540  
L:1883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:1440  
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0  
L:2007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:1500  
L:2082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:720  
L:2084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:840

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L:2085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:900  
L:2120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:300  
L:22064 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=656  
L:22082 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=657  
L:22100 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=658  
L:22244 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=666  
L:23299 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:711  
L:23459 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=718